RUDRAPRASAD CONSULTANTS
Structural Engineers, Architects &
Project Management Consultants

To,

Date: 02-03-2020

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of CONSTRUCTION OF RCC DRAIN CEMENT CONCRETE ROAD AND MISSING COVERING SLABS AT ELUMANDAMMA LAYOUT AND SURROUNDING ARA IN WARD NO.10

Ref: 1. Work Order No: BBMP/EE/BTP/WO/125/2019-20

2. Job code: 010-20-000001

We are here with forwarding to Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS. 97,01,746.73/-(RS. Ninety Seven Lakhs One Thousand Seven Hundred Forty Six and Seventy Three Paisa Only)

Thanking you,

Yours faithfully,

For Rudraprasad Consultants

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Attachments PMC Compliance report

#3, 7th Main Malleswaram, Bangalore – 560003
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NAME OF WORK:-Construction of RCC Drain Cement Concrete Road and Missing Covering Slabs at Elumandamma Layout and Surrounding Ara in Ward No.10

Name of Client : Executive Engineer, Byatarayanapura Division, BBMP, Bangalore.

Contractor/ Agency: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Total Cost : Rs-97,01,746.73/-

Date Of Inspection : 02-03-20

Status Of Bill : First & Final Bill

In the Presence of : a) Assistant Engineer ,Ward no-10 ,Byatarayanapura division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) ,complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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4	Providing granite 10 cms thick slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
5	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing , complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
6	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing , complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
8	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing .complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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9	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs. With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
10	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
11	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete as per specifications and as per the directions of the Engineer-in-charge of the work . (Data Rate)	Work done upto the Billed Quantity and the Quality is satisfactory
12	Suply And Fixing precast concrete Slab 15cm thick including Cost Of reinforcement as per design and drawing materail cost transportation here Charge of Machinary cutting the vertical face to get plain even surface etc complete with all leads and lifts conveynce charges labour charges inclusive of cost of all materials and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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13	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
14	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
15	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
16	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
17	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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18	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means ,complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
19	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
20	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries, complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
21	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM, complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
22	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects, complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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23	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
24	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
25	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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